

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ne PATENT APPLICATION of:

De et al.

Application No.:

10/080,099

Filed:

02/21/2002

SINGLE USER DETECTION BASE For:

STATION

Group:

Not Yet Known

Examiner:

Not Yet Known

RECEIVED

Our File: I-2-0173.9US

Date:

May 20, 2002

MAY 2 9 2002

INFORMATION DISCLOSURE STATEMEN Technology Center 2600

Commissioner for Patents Washington, D.C. 20231

Sir:

Further to applicant's Duty of Disclosure pursuant to 37 C.F.R. § 1.56, applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form.

Applicant: De et al. **Application No.:** 10/080,099

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

De et al.

Jeffrey M. Glabicki

Registration No. 42,584

(215) 568-6400

Volpe and Koenig, P.C. Suite 400, One Penn Center 1617 John F. Kennedy Boulevard Philadelphia, PA 19103

JMG/jrd Enclosures

♥ PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 10/080,099 **Application Number** TRANSMITTAL 2/21/2002 Filing Date **FORM** Not Yet KnRECEIVED **First Named Inventor** (to be used for all correspondence after initial filing) Group Art Unit Not Yet Known MAY 2 9 2012 **Examiner Name** 1-2-0173.9URchnology Center 2600 7 Attorney Docket Number Total Number of Pages in This Submission **ENCLOSURES** (check all that apply)

After Allowance Communication Assignment Papers Fee Transmittal Form (for an Application) to Group Appeal Communication to Board Fee Attached Drawing(s) of Appeals and Interferences Appeal Communication to Group Licensing-related Papers Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition After Final Proprietary Information Petition to Convert to a Affidavits/declaration(s) **Provisional Application** Status Letter Power of Attorney, Revocation Change of Correspondence Other Enclosure(s) (please Extension of Time Request Address identify below): Terminal Disclaimer **Express Abandonment Request** Request for Refund Information Disclosure Statement CD, Number of CD(s) Certified Copy of Priority Remarks Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT JEFFREY M. GLABICKI Reg. No. 42,584 Firm Volpe and Koenig, P.C Individual name Signature Date

Typed or printed name

JEFFREY, M. GLABICKI

Signature

Date

May 20, 2002

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May 20, 2002

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Volpe and Koenig Revision of PTO/SB/17 (10-01)
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EE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

OTAL AMOUNT OF PAYMENT	(\$)	0

Comple	ete if Known	own				
Application Number	10/080,099					
Filing Date	2/21/2002					
First Named Inventor	De et al.					
Examiner Name	Not Yet Known					
Group Art Unit	Not Yet Known					
Attorney Docket No.	I-2-0173.9US					

METHOD OF PAYMENT	FEE CALCULATION (continued)						
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Charge any Deficiencies or Credit any Overpayment in the Total Fees Associated With This Communication	127 50 227 25 Surcharge - late provisional filing-fee-or cover sheet	<u> </u>					
Applicant claims small entity status.	139 130 139 130 Non-English specification	- 					
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for ex parte reexamination	41					
2. Payment Enclosed: Check Credit card Money Other	112 920* 112 920* Requesting publication of SIR prior to Examiner action	╢					
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action	∤ ∦					
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month	4 Ⅰ					
Large Entity Small Entity	116 400 216 200 Extension for reply within second month	4 1					
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114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing]					
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SUBTOTAL (1) (\$) 0	140 110 240 55 Petition to revive - unavoidable]					
2. EXTRA CLAIM FEES	141 1,280 241 640 Petition to revive - unintentional						
Fee from Extra Claims below Fee Paid	142 1,280 242 640 Utility issue fee (or reissue)	_ _					
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102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a))						
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109 84 209 42 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))	+					
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SUBMITTED BY		Complete (if applicable)			
Name (Print/Type)	Jeffrey M. Glabicki	Registration No. (Attorney/Agent)	42,584	Telephone	215-568-6400
Signature	May M. All Make			Date	May 20, 2002

Wฝีที่ฝ่เNG: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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	AA		Ramjee Prasad, Werner Mohr and Walter Konhauser editors, <i>Third Generation Mobile Communication Systems</i> , Artech House, Boston, 2000.							on		
	АВ		Anja Klein, Ghassan Kawas Kaleh and Paul Walter Baier, "Zero Forcing and Minimum Mean-Square Error Equalization for Multiuser Detection in Code-Division Multiple-Access Channels", <i>IEEE Trans. on Vehicular Technology</i> , Vol.45, No. 2, pp. 276-287, May 1996. Naja Klein, "Data Detection Algorithms Specially Designed for the Downlink of CDMA Mobile Radio Systems", <i>IEEE 47th Vehicular Technology Conference</i> , pp. 203-207, May 1997.									
	AC											
AD H.R. Karimi and N.W. Anderson, "A Novel and Joint-Detection using Approximate Cholesky I Mobile Communications PIMRC' 98, Conferent 1345, Sept. 1998, Box							nate Cholesky Factorizat	ion", <i>Per</i> edings, \	sonal, Ir	ndoor	and	
	AE		ETSI STC SMG2 Layer 1 Expert Group, "Low Cost MMSE-BLE-SD Algorithm for UTRA TDD Mode Downline", Tdoc SMG2 UMTS L1, Helsinki, Finland, Sept. 1998.									
	AF		3G TS 25.102 V3.4.0, 2000-10, "UTRA (TDD) Radio Transmission and Reception", 3rd Generation Partnership Project, Technical Specification Group RAN WG4, Annex B., pp. 37.									
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.